

OAK RIDGE NATIONAL LABORATORY

OPERATED BY
UNION CARBIDE CORPORATION
NUCLEAR DIVISION



POST OFFICE BOX X
OAK RIDGE, TENNESSEE 37830

February 14, 1975

FEB 20 1975

Dr. John Kreisher
Associate Scientific Director
Council for Tobacco Research-USA, Inc.
110 East 59th Street
New York, New York 10022

Dear John:

I have attached four copies of an Interim Progress Summary describing our work for the period June 1974 to January 1975. We have attempted in this summary to give an overview of the work rather than specific details. I will be happy to furnish additional information on projects that are of special interest.

Our work on the exposure machines is progressing along nicely. The new smoke distribution valve has been installed on the SEM I and is working well. The SEM I is being interfaced with our gas chromatographs to study smoke composition. We received the new model of the Walton from P&I recently and are doing preliminary work on it now. The LACS II is still giving us problems, but our maintenance people think most of the difficulties have been resolved, and the machine should be operational soon. One preliminary dosimetry experiment with Carrie has been completed and the data is in the computer now. John Caton and I will visit Carrie next week to make final plans and last minute changes in the experimental protocol. We are quite excited about the new method for particle size measurement and have applied it to the Walton. Our initial data on the Walton shows there is rapid growth of the particle size during the exposure period. It is going to be interesting to see what happens to the particle size with the P&I and Lorillard systems.

Mike and I are busy now writing papers. We hope to have drafts of three papers to you within three or four weeks.

We look forward to seeing you in the near future.

Sincerely,

James R. Stokely
Analytical Chemistry Division

JRS/bwm
Attachment

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